

## REMARKS

Claims 1-41 remain pending in this case. As requested by the Examiner, below is a mapping of claims 1-41 to the pages in the Book entitled Netcentric and Client/Server Computing – A Practical Guide, which was published by Auerbach on December 18, 1998. The Book was previously submitted as part of two declarations by inventor Stanton J. Taylor the book was submitted as evidence in support of Mr. Taylor's factual statements that the features of the invention disclosed in claims 1-41 are supported by the concepts, ideas, etc. in the Book.

The below identified portions of the book should not be construed as limiting the scope of the claims or give rise to file history estoppel. The identified portions are simply evidence of one or more embodiments, among many embodiments, of the claimed invention. In addition, the below identified portions of the book should in no way be construed as defining the claimed invention, and are identified only for the purpose of providing factual evidence in support of the declarations of Mr. Taylor.

1. A distributed data storage system for a netcentric computing system, comprising:

**a plurality of database servers; embodiments described on at least page 17-4 and associated figures**

**a plurality of data stores each in communication with one of the database servers, wherein the database servers are operable to access the data stores; embodiments described on at least page 17-4 and associated figures**

**a client communicating with the database servers, wherein each of the data stores includes a predetermined portion of the data used within the netcentric computing system; and embodiments described on at least page 17-4 associated figures**

**a webserver in communication with the client to act as the primary interface between and the client and the database servers. embodiments described on at least pages 1-13 and 3-18 and associated figures**

2. The distributed data storage system of claim 1, wherein the client communicates with the database servers using a web browser application.  
**embodiments described on at least page 3-21 and associated figure(s)**
3. The distributed data storage system of claim 1, wherein the data is horizontally segmented to form the predetermined portion of the data included in each of the data stores. **embodiments described on at least page 18-4 and associated figure(s)**
4. The distributed data storage system of claim 1, wherein the data is vertically segmented to form the predetermined portion of the data included in each of the data stores. **embodiments described on at least page 18-7 and associated figure(s)**
5. The distributed data storage system of claim 1, wherein the data is segmented horizontally and vertically to form the predetermined portion of the data included in each of the data stores. **embodiments described on at least page 18-8 and associated figure(s)**
6. The distributed data storage system of claim 1, wherein the predetermined portion of the data representing all of the data in the netcentric computing system resides on at least one central data store. **embodiments described on at least page 18-14 and associated figure(s)**
7. The distributed data storage system of claim 6, wherein a predetermined portion of the data is replicated to form the predetermined portion of the data residing on at least one local data store. **embodiments described on at least page 18-9 and associated figure(s)**
8. The distributed data storage system of claim 6, wherein the predetermined portion of the data residing on the at least one central data store is

**segmented. embodiments described on at least pages 18-2 and 18-9 and associated figure(s)**

**9. The distributed data storage system of claim 7, wherein the predetermined portion of the data residing on the at least one local data store is segmented. embodiments described on at least pages 17-34 and 18-2 and associated figure(s)**

**10. A segmented data distribution system for data accessed by clients in a netcentric computing system, comprising:**

**a plurality of database servers; embodiments described on at least page 17-4 and associated figures**

**a plurality of data stores in communication with the database servers; embodiments described on at least page 17-4 and associated figures**

**a database located within each of the data stores, wherein each of the databases are representative of a segment of the data in the netcentric computing system; embodiments described on at least page 18-5 and associated figures**

**a network for communication with the database servers; and embodiments described on at least pages 17-4 and associated figures**

**a webserver for communication within the network to provide access by the clients to the data. embodiments described on at least pages 1-13 and 3-18 and associated figures**

**11. The segmented data distribution system of claim 10, wherein the data is horizontally segmented to form the segment of the data included in each of the data stores. embodiments described on at least page 18-4 and associated figures**

**12. The segmented data distribution system of claim 10, wherein the data is vertically segmented to form the segment of the data included in each of the data stores. embodiments described on at least page 18-7 and associated figures**

13. The segmented data distribution system of claim 10, wherein the data is horizontally and vertically segmented to form the segment of the data included in each of the data stores. **embodiments described on at least page 18-8 and associated figures**

14. A replicated data distribution system for data accessed by clients in a netcentric computing system, comprising:

a central database server located at a central site; **embodiments described on at least page 18-16 and associated figures**

a central data store in communication with the central database server; **embodiments described on at least page 18-16 and associated figures**

a local database server located at a local site in communication with the central database server; and **embodiments described on at least page 18-16 and associated figures**

a local data store in communication with the local database server wherein the local data store is populated with replica data of the data within the central data store. **embodiments described on at least page 18-2 and associated figures**

a network for communication with the local database server and the central database server; and **embodiments described on at least page 18-2 and associated figures**

a webserver for communication within the network to provide the primary interface for the clients to access the data within the netcentric computing system. **embodiments described on at least pages 1-13 and 3-18 and associated figures**

15. The replicated data distribution system of claim 14, wherein the communication between the central data base server and the local database server is via the network. **embodiments described on at least page 18-2 and associated figures**

16. The replicated data distribution system of claim 14, wherein the replication is by unidirectional updates. **embodiments described on at least page 18-11 and associated figures**

17. The replicated data distribution system of claim 14, wherein the replication is by bi-directional updates. **embodiments described on at least page 18-12 and associated figures**

18. A method of distributing data for use by clients in a netcentric computing system, comprising:

identifying the data needs of a plurality of data entity groups within the netcentric computing system; **embodiments described on at least page 17-6 and associated figures**

identifying predetermined portions of the data to be used by the data entity groups; **embodiments described on at least page 17-16 and associated figures**

distributing the predetermined portions of the data to a plurality of data stores; **embodiments described on at least page 17-27 and associated figures**

communicating with the data stores with a plurality of database servers; and **embodiments described on at least page 17-24 and associated figures**

interfacing the database servers with the data entity groups using a webserver. **embodiments described on at least pages 1-13 and 3-18 and associated figures**

19. The method of claim 18, further comprising the act of segmenting the data horizontally to create the predetermined portions of the data. **embodiments described on at least page 18-4 and associated figures**

20. The method of claim 18, further comprising the act of segmenting the data vertically to create the predetermined portions of the data. **embodiments described on at least page 18-7 and associated figures**

21. The method of claim 18, further comprising the act of segmenting the data horizontally and vertically to create the predetermined portions of the data. **embodiments described on at least page 18-8 and associated figures**

22. The method of claim 18, further comprising the act of replicating the data to create the predetermined portions of the data. **embodiments described on at least page 18-9 and associated figures**

23. A method of distributing data for access by clients in a netcentric computing system, comprising:

determining a plurality of segmentation parameters; **embodiments described on at least page 18-3 and associated figures**

performing segmentation of the data based on the segmentation parameters; **embodiments described on at least page 18-4 and associated figures**

storing the segmented data in a plurality of data stores; **embodiments described on at least page 18-3 and associated figures**

communicating with the data stores with a plurality of database servers; **embodiments described on at least page 18-5 and associated figures**

interfacing the database servers with a plurality of clients using a webserver; and **embodiments described on at least pages 1-13, 3-18 and 18-5 and associated figures**

selectively accessing the database servers depending on data requests initiated by the clients. **embodiments described on at least page 18-5 and associated figures**

24. The method of claim 23 wherein the segmentation performed is horizontal segmentation. **embodiments described on at least page 18-4 and associated figures**

25. The method of claim 24 wherein the segmentation parameters comprise a plurality of segmentation keys and the origin of the majority of the data requests. **embodiments described on at least page 18-3 and associated figures**

26. The method of claim 23 wherein the segmentation performed is vertical segmentation. **embodiments described on at least page 18-7 and associated figures**

27. The method of claim 26 wherein the segmentation parameters comprise determination of a plurality of related subject matter areas. **embodiments described on at least page 18-3 and associated figures**

28. A method of distributing data for access by clients in a netcentric computing system, comprising:

storing data in a central database; **embodiments described on at least page 18-14 and associated figures**

replicating a predetermined portion of the data to create replica data; **embodiments described on at least page 18-9 and associated figures**

transferring the replica data to a corresponding local database using a network; and **embodiments described on at least page 18-4 and associated figures**

updating the data in the central database and the local database; and **embodiments described on at least page 18-4 and associated figures 18-13**

accessing the data and the replica data using the network and a webserver. **embodiments described on at least pages 1-13, 3-18 and 18-14 and associated figures**

29. The method of claim 28 further comprising the act of updating the data unidirectionally such that the local database is read only and updates to the replica data are performed in the central database. **embodiments described on at least page 18-11 and associated figures**

30. The method of claim 29 further comprising the act of requesting an update to the replica data within the local database from the central database.  
**embodiments described on at least page 18-11 and associated figures**

31. The method of claim 29 further comprising the act of creating a snapshot of the data within the central database that corresponds to the replica data when the replica data is transferred. **embodiments described on at least page 18-11 and associated figures**

32. The method of claim 31 further comprising the act of subsequently updating the local database with replica data that is replicated from the central database following an update of the data in the central database that corresponds to the snapshot. **embodiments described on at least page 18-11 and associated figures**

33. The method of claim 31 further comprising the act of subsequently updating the local database only with changes to the replica data based on the snapshot. **embodiments described on at least page 18-13 and associated figures**

34. The method of claim 29 further comprising the act of publishing the replica data when a pre-determined threshold is reached. **embodiments described on at least page 18-12 and associated figures**

35. The method of claim 34 further comprising the acts of monitoring the publications of replica data with a local database server, and updating the corresponding local database with replica data when the replica data that was published is an update to the replica data in the local database. **embodiments described on at least page 18-13 and associated figures**

36. The method of claim 28 further comprising the act of updating the central database and the local database using bi-directional replication.  
**embodiments described on at least page 18-12 and associated figures**

37. The method of claim 28 further comprising the act of updating the central database and the local database using selective replication. **embodiments described on at least page 18-13 and associated figures**

38. The method of claim 28 further comprising the act of updating the central database with a remote log-on approach. **embodiments described on at least page 18-14 and associated figures**

39. The method of claim 28 further comprising the act of updating the central database with a remote batch approach. **embodiments described on at least page 18-14 and associated figures**

40. The method of claim 28 further comprising the act of updating the central database with a local checkout approach. **embodiments described on at least page 18-15 and associated figures**

41. The method of claim 28 further comprising the act of updating the central database and the local database using a local update strategy. **embodiments described on at least page 18-15 and associated figures**

Based on the above mapping of the claims and the previously submitted Declarations of Mr. Taylor, the Applicant has now provided a showing of facts of sufficient character and weight in accordance with 37 CFR §1.131(b) to establish conception of the invention prior to the effective date of the cited prior art.

The Examiner has also indicated that the Applicant is required to furnish formal drawings. As Applicant pointed out in previous responses, Applicant respectfully believes that formal drawings were filed with this application at the time of filing and that the drawings as filed are correct. In addition, Applicant notes that as of today's date, Applicant has not received a Notice of Draftperson's Patent Drawing

Review (PTO-948) form indicating that any changes need to be made to the drawings as filed. Applicant is unaware of what problems, if any, there are with the drawings as originally filed.

Applicant believes that all of the present pending claims of this application are allowable and respectfully requests the Examiner to issue a Notice of Allowance for this application indicating the same. In the event a telephone conversation would help expedite the prosecution of this application, the Examiner may reach the undersigned at (317) 636-0886.

Respectfully submitted,



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